

Figure 1b

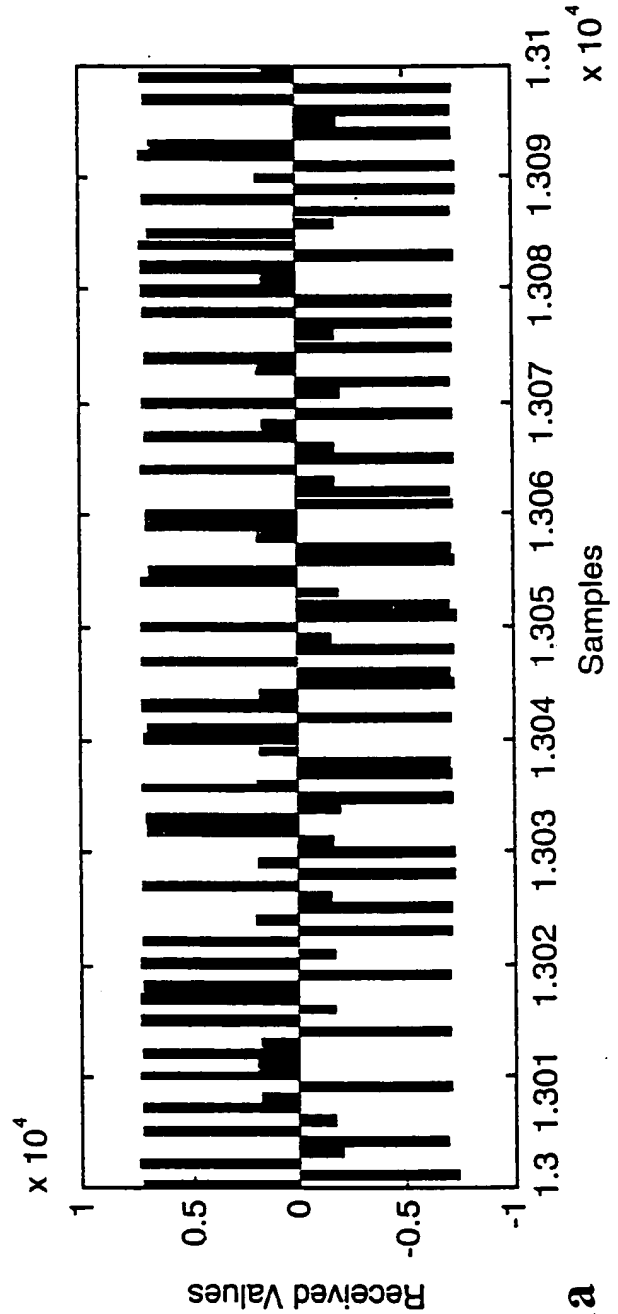


Figure 1a

| Frame | Sign and Training Pattern |        |        |        |        |        |
|-------|---------------------------|--------|--------|--------|--------|--------|
|       | Slot 1                    | Slot 2 | Slot 3 | Slot 4 | Slot 5 | Slot 6 |
| 1     | +R                        | -T     | -R     | +T     | -R     | -T     |
| 2     | +T                        | +R     | -T     | +R     | +T     | -R     |
| 3     | +R                        | +T     | -R     | +T     | -T     | -R     |
| 4     | -T                        | +T     | +R     | +T     | -T     | +T     |
| 5     | +T                        | -R     | -T     | +T     | -T     | +R     |
| 6     | -T                        | +T     | +T     | -T     | -R     | -T     |
| 7     | +T                        | -T     | +T     | +R     | +T     | -T     |
| 8     | -R                        | -T     | +T     | -T     | +T     | -T     |
| 9     | +T                        | +R     | +T     | -T     | +R     | -T     |
| 10    | +R                        | -T     | +T     | +R     | -T     | -R     |
| 11    | -T                        | +T     | -T     | -T     | +T     | +T     |
| 12    | +T                        | -R     | -T     | +T     | +R     | +T     |
| 13    | -R                        | -T     | +T     | -R     | -T     | +T     |
| 14    | -T                        | +T     | -R     | +T     | -T     | +R     |
| 15    | -T                        | +T     | +R     | -T     | +R     | +T     |
| 16    | -T                        | -R     | +T     | -R     | -T     | +R     |
| 17    | -T                        | -T     | +R     | +T     | +T     | -T     |
| 18    | +T                        | +R     | -T     | -T     | +T     | -T     |
| 19    | -R                        | +T     | -T     | -T     | -R     | +T     |
| 20    | +T                        | -T     | -T     | -R     | +T     | +T     |

The "T" in the table represents a training amplitude.  
The "R" in the table represents a reference amplitude.  
The "+" or "-" represents the sign of the symbol.

**Figure 2**

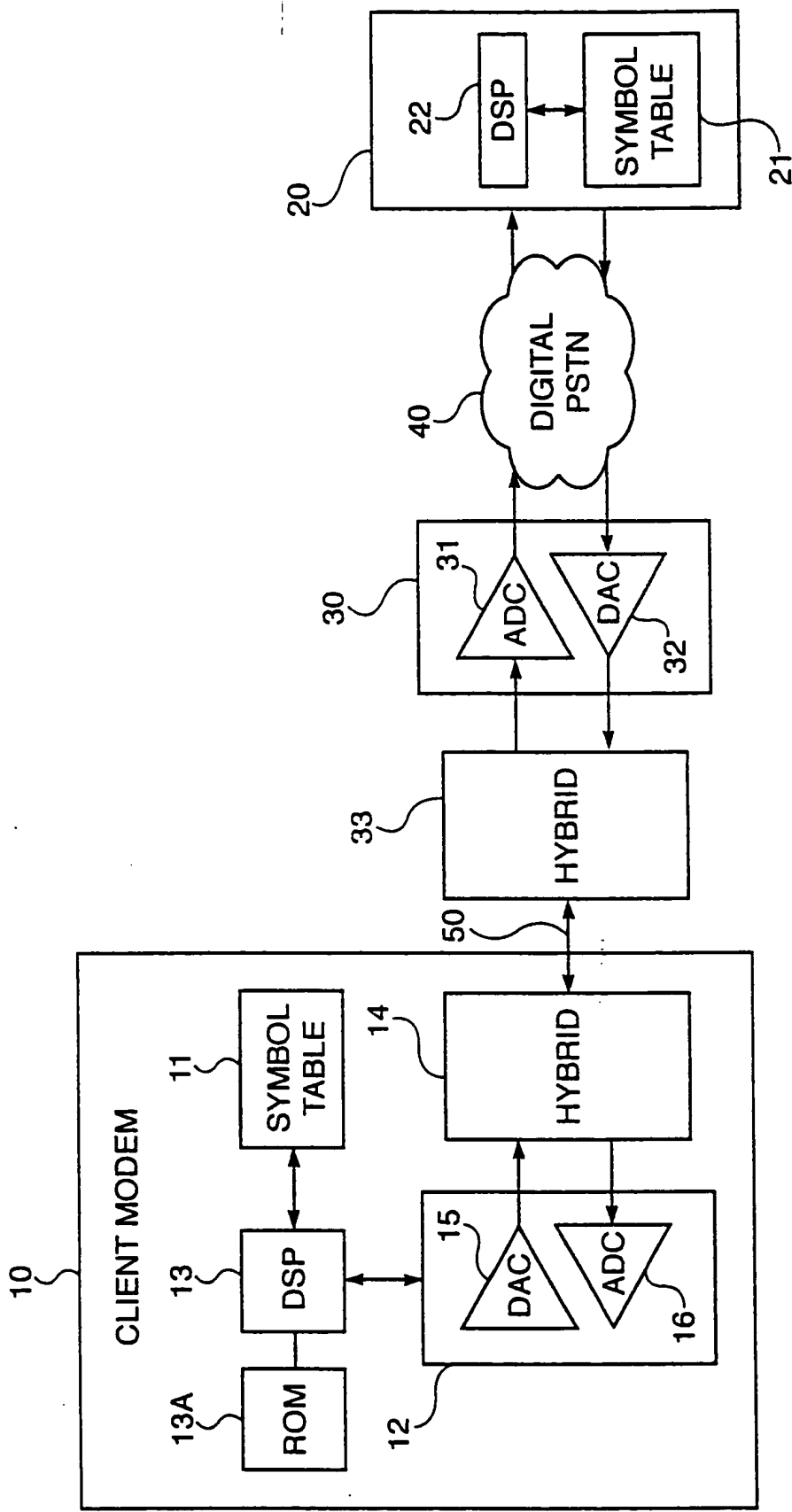


Figure 3

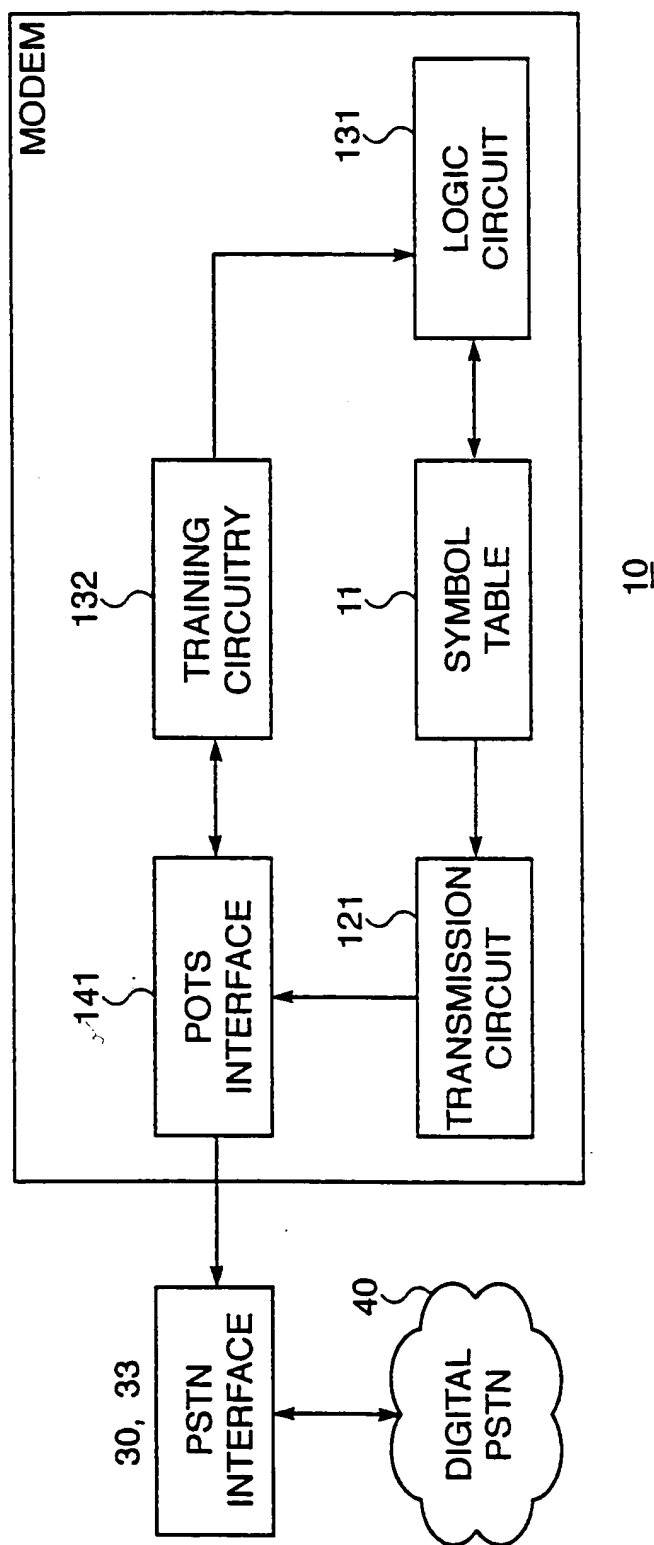


Figure 4

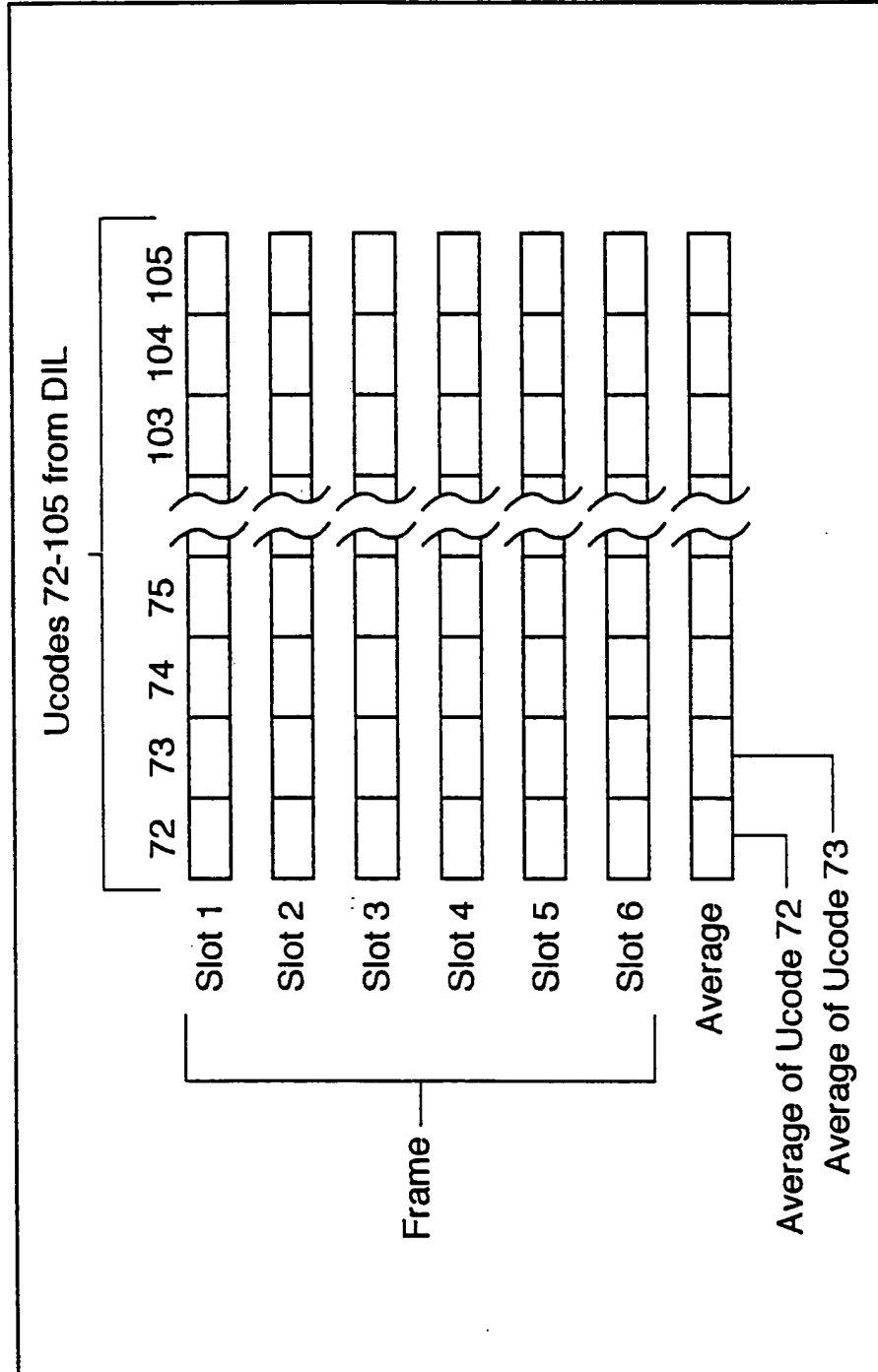


Figure 5

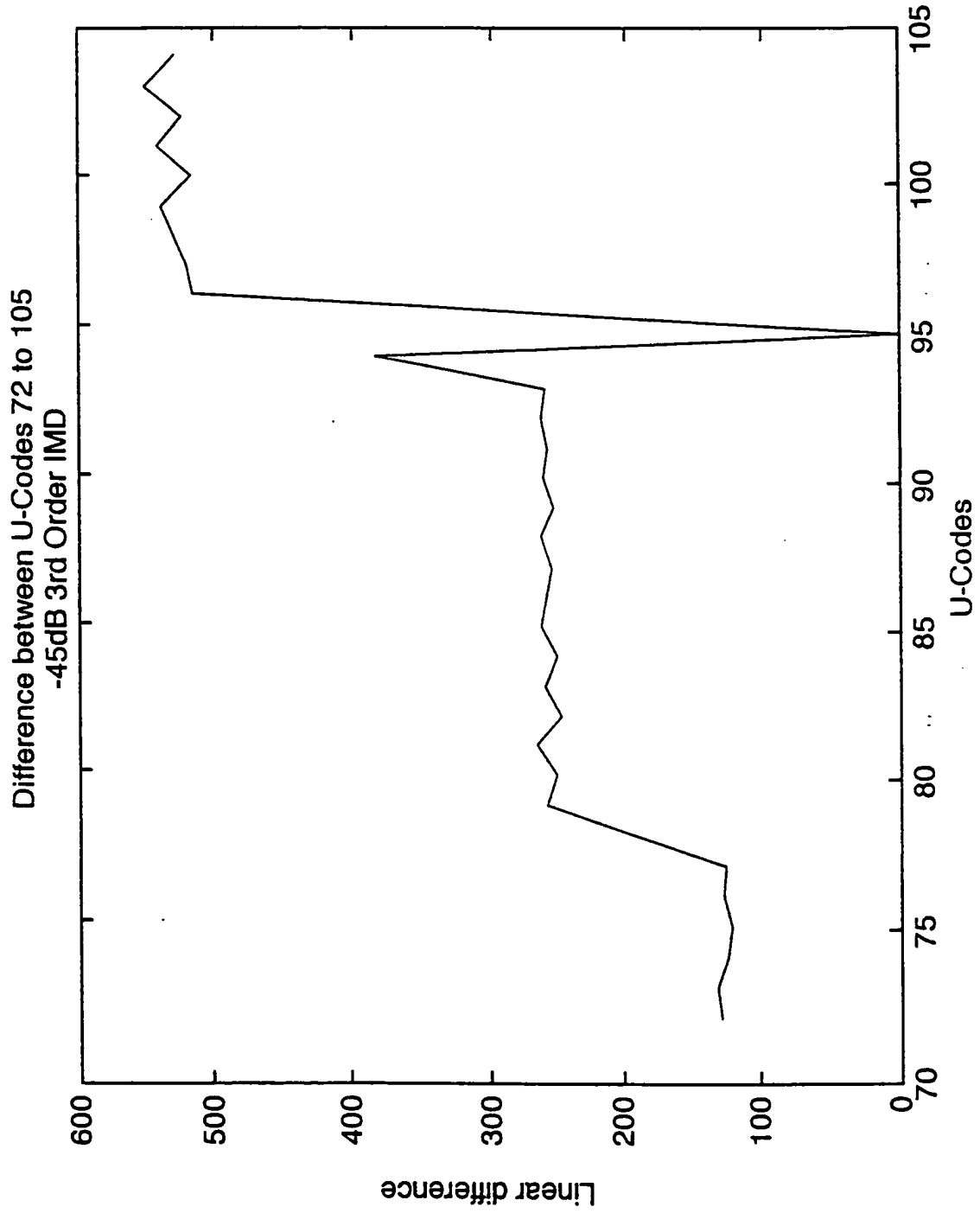


Figure 6

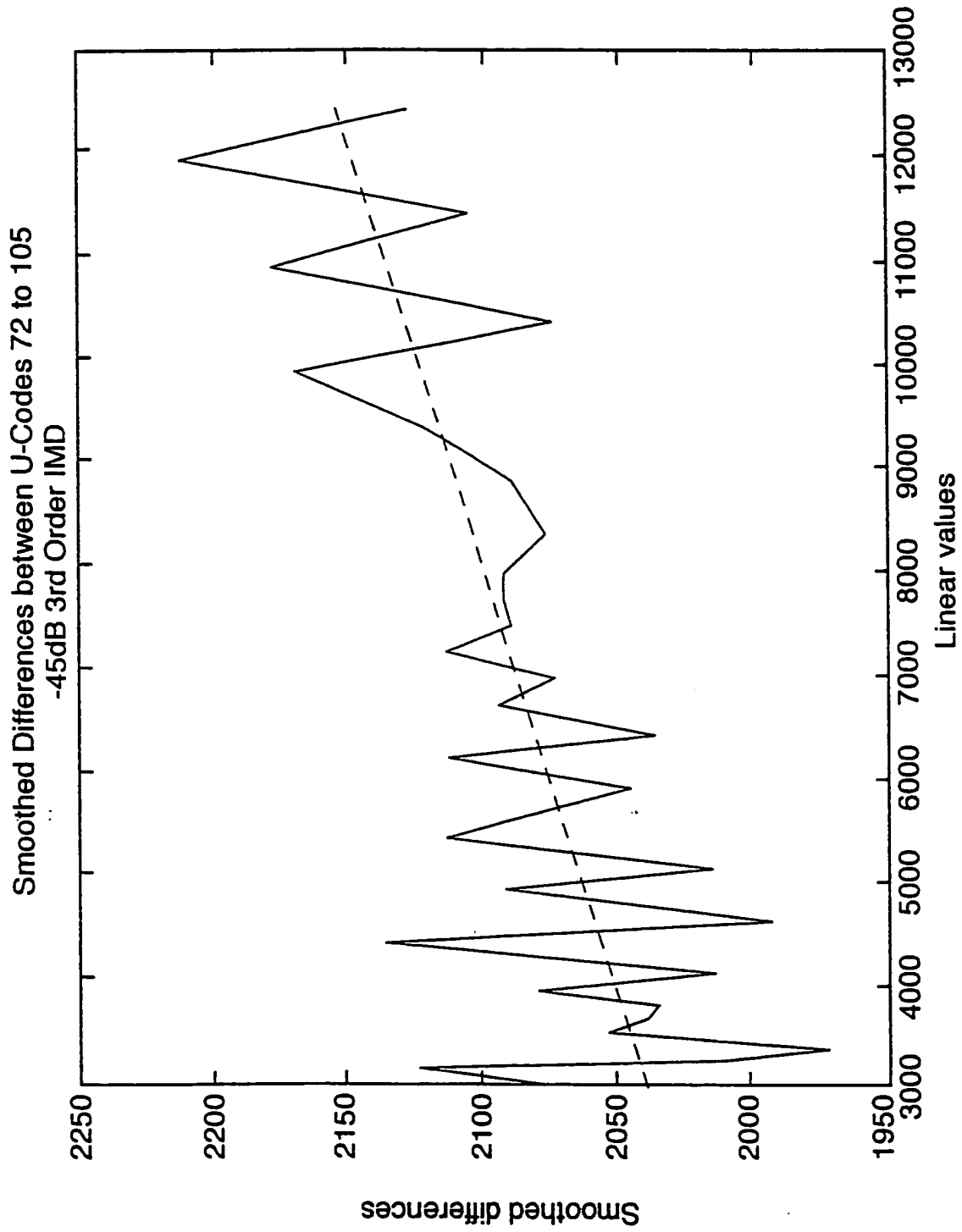
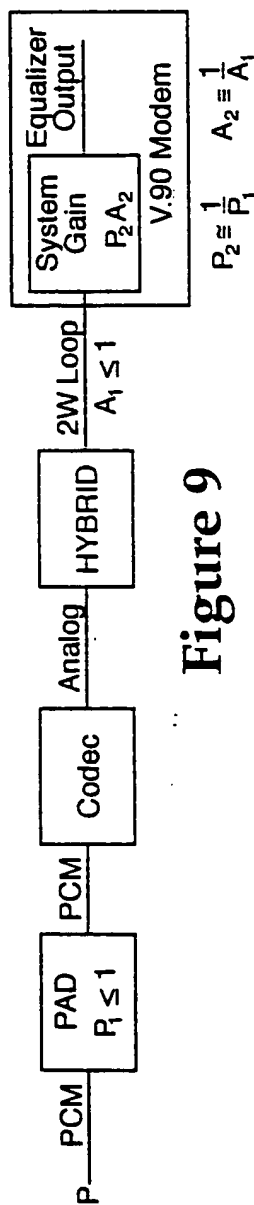
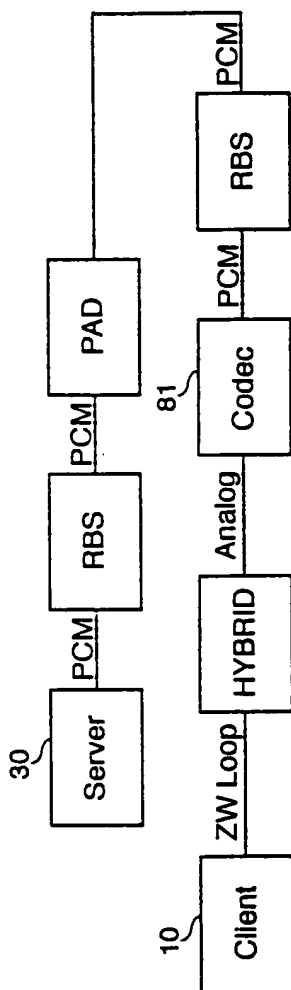


Figure 7



SSLICED[x] - results in the G.711 value closest to x.  
 Ucode# - refers to PCM symbols sent by the server (see V.90 specification)  
 Received Sample<sub>n</sub> - an average received value from the DIL sequence corresponding to Ucode#.  
 Test Fraction - a value between 1.0 and 0.25 that is adjusted to result in a minimum error



| U - Code Sent | Avg. Received Value | Using 0.5 as the Text Fraction | Absolute Error | Using 0.5077 as the Text Fraction | Absolute Error |
|---------------|---------------------|--------------------------------|----------------|-----------------------------------|----------------|
| 90            | 6673                | 3337                           | 51             | 3388                              | 0              |
| 91            | 6925                | 3463                           | 53             | 3516                              | 0              |
| 92            | 7178                | 3589                           | 55             | 3644                              | 0              |
| 93            | 7430                | 3715                           | 57             | 3772                              | 0              |
| 94            | 7682                | 3841                           | 59             | 3900                              | 0              |
| 95            | 8060                | 4030                           | 62             | 4092                              | 0              |
| 96            | 8060                | 4030                           | 62             | 4092                              | 0              |
| 97            | 8564                | 4282                           | 66             | 4348                              | 0              |
| 98            | 9068                | 4534                           | 70             | 4604                              | 0              |
| 99            | 9573                | 4787                           | 73             | 4860                              | 0              |
| 100           | 10077               | 5039                           | 77             | 5116                              | 0              |
| 101           | 10581               | 5291                           | 81             | 5372                              | 0              |
| 102           | 11085               | 5543                           | 85             | 5628                              | 0              |
| 103           | 11590               | 5795                           | 89             | 5884                              | 0              |
| 104           | 12094               | 6047                           | 93             | 6140                              | 0              |
| 105           | 12598               | 6299                           | 97             | 6396                              | 0              |

**Figure 11**

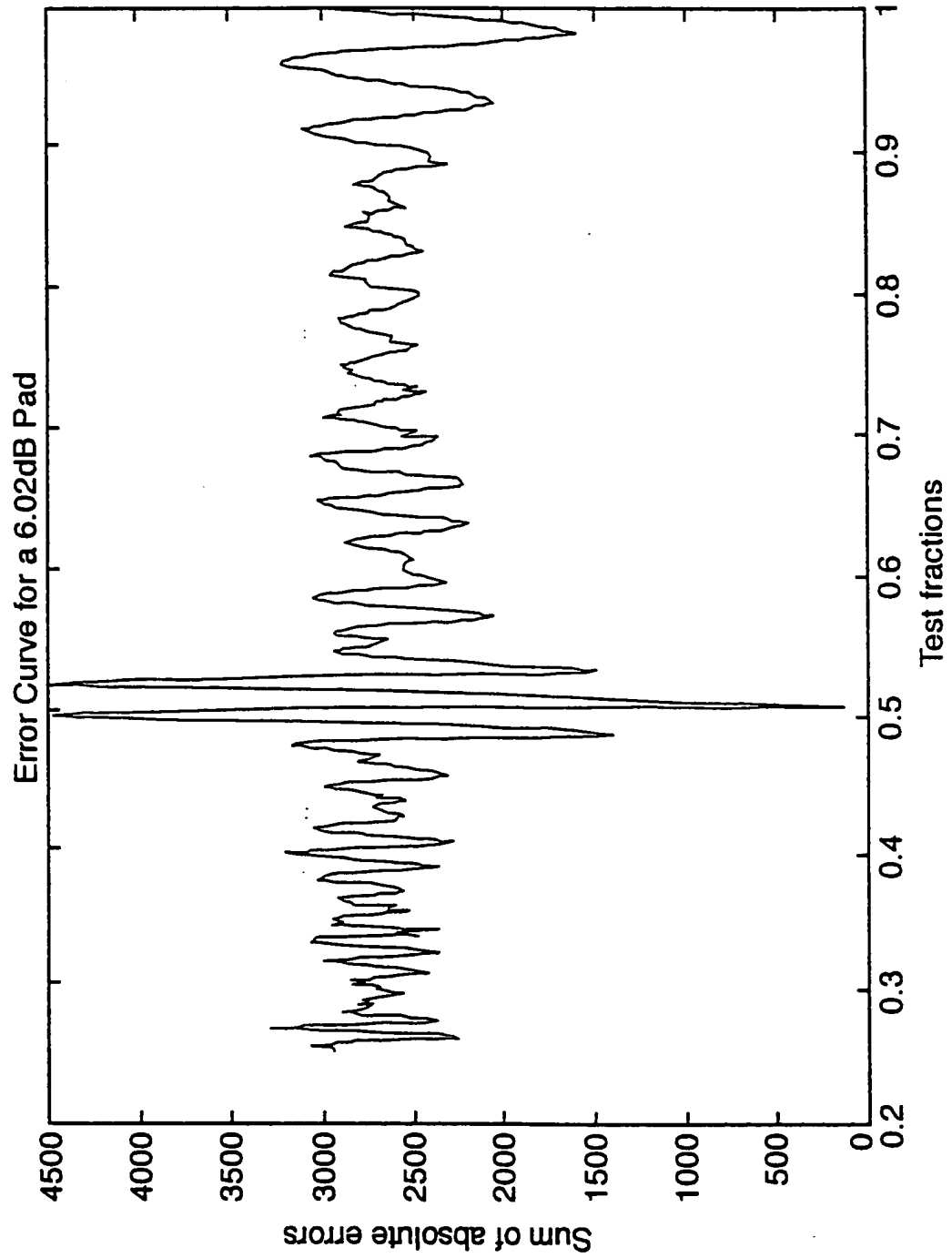
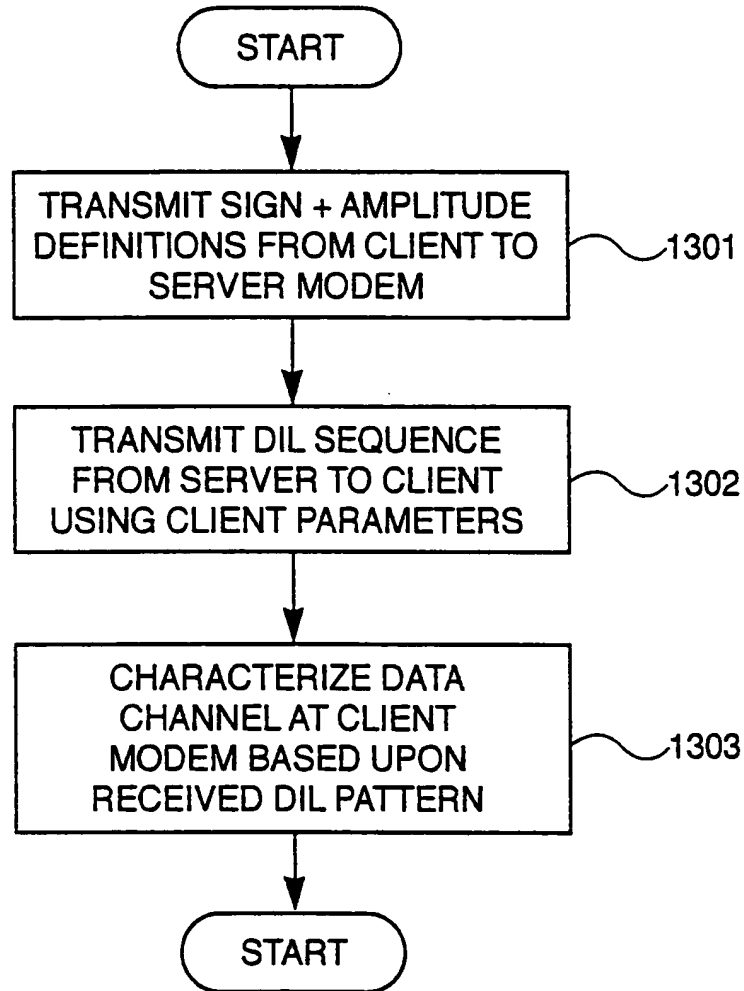


Figure 12



**Figure 13**

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